

ABSTRACT

A method of decoding a signal in an optical fiber. In one embodiment the method includes receiving the optical signal, wherein the optical signal is a pulse amplitude modulated signal. Converting the optical signal to an electrical signal. Comparing the electrical signal with a plurality of levels. Producing comparison output signals based on the comparison of the electrical signal with the plurality of levels. Processing the comparison output signals on a clock to produce processed output signals and latching the processed output signals on a clock signal to generate the plurality of serial, digital data streams.